

From wang!elf.wang.com!ucsd.edu!info-hams-relay Sat Mar 30 00:40:51 1991 remote
from tosspot
Received: by tosspot (1.64/waf)
via UUCP; Fri, 29 Mar 91 20:10:49 EST
for lee
Received: from somewhere by elf.wang.com id aa19060; Sat, 30 Mar 91 0:40:49 GMT
Received: from ucsd.edu by relay1.UU.NET with SMTP
(5.61/UUNET-shadow-mx) id AA14750; Fri, 29 Mar 91 18:29:22 -0500
Received: by ucsd.edu; id AA25224
sendmail 5.64/UCSD-2.1-sun
Fri, 29 Mar 91 12:27:13 -0800 for brian
Received: by ucsd.edu; id AA25206
sendmail 5.64/UCSD-2.1-sun
Fri, 29 Mar 91 12:27:04 -0800 for /usr/lib/sendmail -oc -odb -oQ/var/spool/
lqueue -oi -finfo-hams-relay info-hams-list
Message-Id: <9103292027.AA25206@ucsd.edu>
Date: Fri, 29 Mar 91 12:27:02 PST
From: Info-Hams Mailing List and Newsgroup <info-hams-relay@ucsd.edu>
Reply-To: Info-Hams@ucsd.edu
Subject: Info-Hams Digest V91 #251
To: Info-Hams@ucsd.edu

Info-Hams Digest Fri, 29 Mar 91 Volume 91 : Issue 251

Today's Topics:

"Business use" and MARS
a few fundamental questions about RF signals
Antenna matching problem for novice
ATV: AM or FM (2 msgs)
Can you really learn code from tapes? (2 msgs)
 mods for HR2600
Re: First No-code Tech?
 STS-37 SAREX Timeline
the Freeband below 10 meters (2 msgs)
Vacuum tube question/quest (Attn: OOTs & gov't surplus fans)
 WRISTWATCH 2m TRANSCEIVER ?

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 29 Mar 91 16:51:44 GMT
From: w8grt@uunet.uu.net
Subject: "Business use" and MARS
To: info-hams@ucsd.edu

wmartin@stl-06sima.army.mil (Will Martin) writes:

> Is MARS traffic subject to less restrictions regarding content than
> ordinary or regular ham radio? For example, postulate a husband-and-wife
>
> Am I wrong in these impressions (either one or both)? If so, please post
> corrections...

Although rules and practices may have changed recently (doubtful), when I was active in USAF MARS, the rules regarding permissible message content were AT LEAST as strict as those in ham radio.

The major difference that I liked and which is what the rule for amateur automatic packet traffic SHOULD be, but isn't, is that message content was not reviewed for propriety at each relay point in the path from station of origin to destination. With the single exception of death notifications, any improper message was delivered anyway BUT THE OPERATOR WHO PERMITTED IT TO ENTER INTO THE SYSTEM IN THE FIRST PLACE WAS SEVERELY DISCIPLINED.

It should not be lost sight of that MARS is NOT a funny kind of ham radio named after a candy bar. MARS is a military system in which amateurs are permitted a secondary role. Hence, the 'handle' HQ has on rule enforcement would probably make the FCC drool with envy.

Date: 28 Mar 91 20:50:34 GMT
From: hpl-opus!hpnmrla!alanb@hplabs.hpl.hp.com
Subject: a few fundamental questions about RF signals
To: info-hams@ucsd.edu

In rec.radio.amateur.misc, chuck@eng.umd.edu (Chuck Harris - WA3UQV) writes:

>In article <7087@mace.cc.purdue.edu> dil@mace.cc.purdue.edu (Perry G Ramsey) writes:
>>In article <9171@plains.NoDak.edu>, kkim@plains.NoDak.edu (kyongsok kim) writes:
>>> I wonder if the
>>> same RF signal can travel either through copper wire or through air. In
>>> other words, is there no difference between RF signal (say, for channel
>>> 4) that my TV receives from the air and RF signal (say, for channel 4)
>>> coming from CATV company through cable?

>>
>>None at all, except that one is an electromagnetic wave traveling through
>>the air and the other is an alternating current traveling through a
>>wire.

>I'm sorry Perry, but you are wrong. The "signal" travelling thru the coax
>is an electro-magnetic wave.

The signal traveling from your flashlight battery to the bulb is also
technically an electro-magnetic wave. When the switch closes, the lamp
doesn't get its voltage for about 1/4 nanosecond.

AL N1AL

Date: 29 Mar 91 14:18:40 GMT
From: swrinde!elroy.jpl.nasa.gov!usc!wuarchive!uwm.edu!linac!att!att!tsdiag!
davet@ucsd.edu
Subject: Antenna matching problem for novice
To: info-hams@ucsd.edu

In article <22149@yunexus.YorkU.CA> landolt@yunexus.YorkU.CA (Paul Landolt)
writes:

-I am having trouble with matching an antenna and would like a bit of help.
-I am studying for my amateur license, and so I am just trying to get a handle
-on these things.

-
-I had bought an antenna that was 'precisely matched at the factory'. So, this
-is a fibreglass, top-load antenna with a 10ft cable (the whole mess is set for
-an impedance of 50 ohms). I remember in my readings that the antenna cable
-becomes part of the antenna (for the sake of matching/tuning), and that
-changing the cable length will change the match.

Most of the time, this is not true.

-My question is: How would I match the impedance if I changed the cable length?
The cable length generally has little to do with the SWR of the antenna. The
type and quality of the cable can make a difference, though. Note that coax
exhibits the same characteristic impedance regardless of length/frequency.

-...Do I need to get a SWR meter and a matching box? Add
-some Impedance matching resistors to the line? (Radio Shack sold an 8hm, 20W
-one). Is there a set formula for calculating the resistance needed to re-match
-the line?

Adding resistors to the line can help the apparent impedance I suppose, but

it would just waste power that could be radiating signal otherwise. By using an SWR meter you can adjust the length of the antenna to get a near perfect match without resorting to resistors. Find an SWR meter and give it a try. I hope this information is helpful.

--

David E. Tiller	davet@tsdiag.ccur.com	Concurrent Computer Corp.
FAX: 201-870-5952	Ph: (201) 870-4119 (w)	2 Crescent Place, M/S 117
UUCP: ucbvax!rutgers!petsd!tsdiag!davet		Oceanport NJ, 07757
ICBM: 40 16' 52" N	73 59' 00" W	N2KAU @ NN2Z

Date: 29 Mar 91 15:10:52 GMT

From: usc!zaphod.mps.ohio-state.edu!wuarchive!udel!haven!wam.umd.edu!

rustyh@ucsd.edu

Subject: ATV: AM or FM

To: info-hams@ucsd.edu

In article <1991Mar29.005013.29370@ux1.cso.uiuc.edu> phil@ux1.cso.uiuc.edu (Phil Howard KA9WGN) writes:

>Some of the ATV equipment on the market for 23cm uses FM instead of AM or
>VSB as its modulation.

>

>I'd like to know what the merits in doing this are. I note that the ARRL
>bandplan for 23cm includes 5 "channels" for ATV that are only 6 MHz wide.

>

>One maker of FM equipment tells me that the picture is a lot less noisy
>and the bandwidth is the same as AM. I don't see how the picture can be
>a lot less noisy. FM gets its advantages when the deviation is high enough
>that noise will not (at a detectable level) modulate the phase of the
>carrier since the amplitude is constant after limiting.

>

etc...etc....

>

>FM audio as we typically use it on VHF and UHF now days involves a
>deviation of only (peak) 5 kHz, a bandpass of 3 kHz, and an interstation
>spacing of perhaps 60 kHz (based on close repeaters in a "dense" area).
>This gives us audio that, if strong enough, is relatively free of noise,
>but is readily interferred with by cochannel signals, and has the sound
>of "frying" when weak.

>

>Translating this to video results in 7 MHz of deviation and an interstation
>spacing of about 84 MHz!

>

Television point to point links and ENG (Electronic News Gathering) uses
a P-P deviation of 8 MHz for a 1 V RMS sine wave (Video is 1 V sync tip

to peak) with CCIR rec 405 pre-emphasis (which in NTSC cuts 10dB at the low end and adds 2 dB at the high end (crossover at 761 kHz)).
My guess is that FM gives an advantage at the low frequency end (which include of course the sync signals) (where the modulation index is high).
The eye is less sensitive to high frequency noise and the pre-emphasis helps there.

Satellite TV transmission uses FM also (Full transponder is 30 MHz BW & I think the deviation is about 17 MHz + dispersion)

>Yet I am told by the maker of the FM equipment that the signal takes no more room than an AM signal.

ENG channels are 17 MHz apart (But there are split channels)

>

etc... etc....

>

>Another aspect of FM that bothers me a lot is the fact that, as the signal gets weaker and weaker, the quality of the resultant signal drops even faster. The point at which AM and FM equal out will probably be a noisy picture, but below that, FM declines very rapidly.

S/N for an 8 MHz p-p deviated signal and CCIR pre-emp (NTSC)
is equal to $P_r - n + 128.6$

where P_r is the received level in dBm, n is the noise figure in dBs & the 128.6 is the fudge factor which accounts for the conversion units, pre-emphasis, FM improvement factor etc...

I've not looked into VSB or AM much so I can't give the figures for that but perhaps someone else out there has the formula.

--
Michael Katzmann (VK2BEA/G4NYV/NV3Z) Please email to this address |
Broadcast Sports Technology |
2135 Espey Ct. #4 \\\/
Crofton MD 21114-2442 (301) 721-5151 ...uunet!opel!vk2bea!michael

Date: 29 Mar 91 15:19:15 GMT

From: pa.dec.com!shlump.nac.dec.com!sousa.enet.dec.com!sndpit.enet.dec.com!
smith@decwrl.dec.com
Subject: ATV: AM or FM
To: info-hams@ucsd.edu

In article <1991Mar29.005013.29370@ux1.cso.uiuc.edu>, phil@ux1.cso.uiuc.edu (Phil Howard KA9WGN) writes...

>Some of the ATV equipment on the market for 23cm uses FM instead of AM or

>VSB as its modulation.

>
>I'd like to know what the merits in doing this are. I note that the ARRL
>bandplan for 23cm includes 5 "channels" for ATV that are only 6 MHz wide.

I saw (was it here on the net?) a wider channel (12 MHz?) in one of the higher bands for FMTV, so I suspect it takes more bandwidth. I'm told that the standard for FM ATV deviation is some 16(?) MHz, giving something like 50 MHz bandwidths [using $BW=2(\text{dev}+\text{Fmax})$]. This gives really nice pictures, or so I'm told, but it really chews up bandwidth.

On the other tentacle, satellite TV bandwidths are something like 10 MHz, including a couple of sound carriers and a digital link, and those are FM, so it must work in narrower bandwidths.

>Yet I am told by the maker of the FM equipment that the signal takes no
>more room than an AM signal.

I think I've talked to the same vendor. His message seems to be "Set the deviation so the main carrier takes up the full 6 MHz of allocated bandwidth and don't worry about (or let others worry about) the sidebands." I might be getting some FMTV gear in the next couple of months, (anything has to be better than the AMTV gear I've seen advertized), and I'll be trying different deviations, bandwidths, and powers, so hopefully I'll have some real numbers to talk about. But it does sound like when I cut the deviation way down like that I'll be getting lower (than optimum) picture quality and losing the 'capture effect' (which apparently depends on the deviation being larger than the highest-modulating-frequency). The quick answer seems to be that nobody knows....

>Filtering these sidebands off will be the next trick.

I'm not sure you can filter them off, they aren't just unwanted spurs, they are sidebands of your signal, and if you filter them off your main carrier will be distorted in some way. I don't know, and I can't find anyone who knows, so I'm going to go ahead and try it out and determine what's the minimum usable abndwidth and deviation for FMTV.

Willie Smith
smith@sndpit.enet.dec.com
smith%sndpit.enet.dec.com@decwrl.dec.com
{Usenet!Backbone}!decwrl!sndpit.enet.dec.com!smith

Date: 28 Mar 91 18:48:10 GMT
From: hpl-opus!hpspdra!henryb@hplabs.hpl.hp.com
Subject: Can you really learn code from tapes?

To: info-hams@ucsd.edu

> Re. learning Morse.
> Has anyone found teaching tapes that useful?

The big advantage of tapes of course is that many of us can listen to them during a drive to work (I suppose this is un-quality time in the modern vernacular).

Anyway I like my good old DATONG morse tutor.

DATONGs are very common in G-land but rare stateside (probably because they don't teach the pro-signs). DATONGs do however have the advantage of being small, self contained and the battery lasts for ages so they are a lot more convenient than a PC. I suppose some people use a laptop for Morse practice?

Henry Black (G4NOC, KK6JR) +1 415 857 6655 henryb@hpspd.HP.COM KK6JR @ W6PW-3

Date: 28 Mar 91 21:06:08 GMT
From: hpfcso!hpfcdc!perry@hplabs.hpl.hp.com
Subject: Can you really learn code from tapes?
To: info-hams@ucsd.edu

>I have found that I am almost 100% efficient at copying the random groups
>from Morse Tutor at 13 wpm, but I am terrible at copying QSO. I think it comes
>from the fact that random groups aren't interesting to listen to, so
>the brain takes them one character at a time. OTOH, QSO's have content
>which is absorbed and interpreted. It's a slightly different mental
>process.

> Perry G. Ramsey Department of Earth and Atmospheric Sciences

Well, there you go again. Letting your brain get in the way of copying CW. Take your brain out of your head, and set it on the table before listening to code.

This works much better for me, although I occasionally forget to put my brain back in.

i -)

Perry / KFOCA

Date: 28 Mar 91 20:43:36 GMT
From: hpl-opus!hpnmrla!alanb@hplabs.hpl.hp.com
Subject: mods for HR2600
To: info-hams@ucsd.edu

In rec.radio.amateur.misc, larson@sntp.sri.com (Alan Larson) writes:

>In article <9103202035.AA00390@ucsd.edu> faunt@CISCO.COM (Doug Faunt N6TQS 415-688-8269) writes:
>>Look in the April 1991 issue of 73, page 59, middle of right hand
>>side. ChipSwitch, 4773 Sonoma Hwy., Suite 132, Santa Rosa CA
>>95409-4269, is selling a replacement CPU for 2510's and 2600's for
>>\$60. I don't know if they're real or not.

> Did I miss something? Why replace the CPU for a 2510 or 2600? I
>would think replacing the ~15 kHz wide IF filter would be a better
>thing to do.

The CPU has the personality of the radio burned into its internal PROM.
By replacing the CPU, you can add features.

They are selling like the proverbial hotcakes. I hear they sold 5,000 units by "word of mouth" even before the first 73 ad.

AL N1AL

Date: 28 Mar 91 17:19:09 GMT
From: hpfcso!hpfcdc!ajs@hplabs.hpl.hp.com
Subject: Re: First No-code Tech?
To: info-hams@ucsd.edu

> She was getting licensed so that she could talk to her husband -- not
> because she loves radio.

You are framing it negatively when it you be positive. Instead of:

"the new rule will bring in people whose interest is trivial"

try:

"the new rule will attract people who would not otherwise have been interested enough to be exposed to the experience"

Date: 29 Mar 91 16:43:37 GMT

From: techpubs@burdvax.prc.unisys.com
Subject: STS-37 SAREX Timeline
To: info-hams@ucsd.edu

Now that STS-37 is only a week before lift off, its time to think seriously again about working or at least monitoring SAREX activity from the space craft. Therefore, I've converted the previously published operating schedule into a form that can be easily updated with accurate time of launch and then converted into real UTC dates and times. The table below is an example of the posting I will make right after lift off. It uses a lift off time of April 5 at 14:18 UTC. The table that will be posted after lift off will, of course, contain the real lift off time, and all other times will be adjusted accordingly. Reading left to right, Mission Elapsed Time in Days, Hours, and Minutes, UTC date and time in Day of the Month, hours, and minutes, and then Event. Note that the entry in the UTC D column is Day of the Month; so, for example, the first entry under UTC, 5 14 18, should be read as April 5 at 14:18 UTC. Also, be aware that Daylight Savings Time will begin during this mission. Don't let that confuse you. All times shown here are UTC which does not shift back and forth with the passing of the seasons. Time line information for this table comes from "STS-37 SAREX Information Summary" posted by Gary Morris (N5QWC) on 21 March, 1991.

Good luck to all.

Anything can occur	Joseph M. Fedock
Anything is possible and likely	N3IE
Duration and space do not exist	Unisys DS, Inc/EISG/VFL
On the tenuous ground of reality	Paoli, PA 19301
Imagination spins out and weaves new patterns	(215) 648-2495
- "Fanni and Alexander" - Ingmar Bergman.	techpubs@PRC.Unisys.COM

MET			UTC			
D	Hr	Mn	D	Hr	Mn	Event
-	--	--	-	--	--	-----
0	0	0	5	14	18	Launch
0	6	55	5	21	13	Start_SAREX_Setup
0	7	0	5	21	18	Begin_Pre-Sleep_Activity
0	7	20	5	21	38	Finish_SAREX_Setup
0	10	0	6	0	18	Begin_Sleep_Period
0	18	0	6	8	18	Begin_Post-Sleep_Activity
0	21	0	6	11	18	End_Post-Sleep_Activity
0	21	50	6	12	8	Cabin_depress_to_10.2_PSI
0	23	12	6	13	30	AOS_FSTV_w/N9AB,_US_Bridge
0	23	30	6	13	48	LOS_FSTV_w/N9AB,_US_Bridge
1	0	51	6	15	9	AOS_School_#1_via_US_Bridge

1	1	9	6	15	27	LOS_School_#1_via_US_Bridge
1	2	29	6	16	47	AOS_School_#2_via_US_Bridge
1	2	47	6	17	5	LOS_School_#2_via_US_Bridge
1	4	9	6	18	27	AOS_School_#3_via_US_Bridge
1	4	25	6	18	43	LOS_School_#3_via_US_Bridge
1	6	0	6	20	18	Begin_Pre-Sleep_Activity
1	6	0	6	20	18	AOS_School_#4_via_SA_Bridge
1	6	21	6	20	39	LOS_School_#4_via_SA_Bridge
1	9	0	6	23	18	Begin_Sleep_Period
1	17	0	7	7	18	Begin_Post-Sleep_Activity
1	20	0	7	10	18	End_Post-Sleep_Activity
1	21	0	7	11	18	GRO_Grapple
1	21	10	7	11	28	GRO_Unberth
1	22	10	7	12	28	GRO_Solar_Array_Deploy
1	23	30	7	13	48	GRO_High_Gain_Antenna_Deploy
2	0	11	7	14	29	AOS_FSTV_w/W5RRR,_KE4PT_w/US_Bridge
2	0	31	7	14	49	LOS_FSTV_w/W5RRR,_KE4PT_w/US_Bridge
2	3	10	7	17	28	GRO_Release
2	6	0	7	20	18	Begin_Pre-Sleep_Activity
2	9	0	7	23	18	Begin_Sleep_Period
2	17	0	8	7	18	Begin_Post-Sleep_Activity
2	20	0	8	10	18	End_Post-Sleep_Activity
2	20	0	8	10	18	Begin_EVA_Prep
2	21	50	8	12	8	Unscheduled_SSTV/Packet
2	22	15	8	12	33	Airlock_Depress/Egress
2	23	20	8	13	38	Unscheduled_SSTV/Packet
3	0	50	8	15	8	Unscheduled_SSTV/Packet
3	2	20	8	16	38	Unscheduled_SSTV/Packet
3	4	30	8	18	48	Airlock_Ingress/Repress
3	5	15	8	19	33	Begin_Pre-Sleep_Activity
3	8	15	8	22	33	Begin_Sleep_Period
3	15	15	9	5	33	Begin_Post-Sleep_Activity
3	18	15	9	8	33	End_Post-Sleep_Activity
3	18	15	9	8	33	Cabin_repress_to_14.7_PSI
3	22	54	9	13	12	AOS_School_#5_US_Bridge
3	23	13	9	13	31	LOS_School_#5_US_Bridge
4	0	32	9	14	50	AOS_Backup_FSTV_or_w/W5RRR_US_Bridge
4	0	52	9	15	10	LOS_Backup_FSTV_or_w/W5RRR_US_Bridge
4	5	5	9	19	23	Begin_Pre-Sleep_Activity
4	5	10	9	19	28	Start_SAREX_Stow
4	5	40	9	19	58	Finish_SAREX_Stow
4	8	5	9	22	23	Begin_Sleep_Period
4	16	5	10	6	23	Begin_Post-Sleep_Activity
4	19	5	10	9	23	End_Post-Sleep_Activity
4	23	5	10	13	23	Deorbit_Burn
5	0	10	10	14	28	EDW_Landing

Date: 27 Mar 91 21:46:29 GMT
From: hpfcs0!hpfcdc!perry@hplabs.hpl.hp.com
Subject: the Freeband below 10 meters
To: info-hams@ucsd.edu

>I think that what is happening between 28.000 and 28.100 is truly
>disgusting, but what can we do about it??

I'm glad someone else is unintentionally QRMing the freebanders on our frequencies. It's funny how 10 meters works. A completely quiet frequency one minute, then the next minute the conditions change and bring in a freebander at S9.

I was calling CQ on an otherwise quiet frequency. These freebanders pop in (QSK is nice, ain't it ?), and then suddenly QRT. Well, not wanting to interfere, I moved up 10 KHz, and sonofagun if it didn't happen again. Yup, 10 meters is really a strange band.

Maybe we need to put beacons and packet in 28.005 - 28.95, every 5 KHz. It's time to get militant and take our bands back.

Perry / KF0CA

Date: 28 Mar 91 21:14:32 GMT
From: hpfcs0!hpfcdc!perry@hplabs.hpl.hp.com
Subject: the Freeband below 10 meters
To: info-hams@ucsd.edu

>If I had my dream come true, the FCC would hire engineers on a commision basis.
>A team of monitoring stations could sweep into a small city and collect
>measurements and video tape the whole deal for a few days, they could send
>evidence in to a judge with the proper authority to give them whatever
>warrant they need, raid them and collect a percentage of the \$1000 fines
>
>Luigi Giasi KA1UTU

Better yet, CQ magazine could sponsor a DF contest for the freeband. The ensuing turkey shoot would be most entertaining.

Or, maybe the FCC should turn the freeband into a free-for-all band. Jungle rules. No power limit. Consider it a place for linear amplifier and antenna melting-point experimentation beyond the 1500 watt level.

: -)

Perry / KF0CA

Date: 29 Mar 91 03:38:29 GMT
From: bloom-beacon!snorkelwacker.mit.edu!spool.mu.edu!uwm.edu!cs.utexas.edu!
oakhill!nddsun1!waters@ucbvax.berkeley.edu
Subject: Vacuum tube question/quest (Attn: 00Ts & gov't surplus fans)
To: info-hams@ucsd.edu

In article <1991Mar28.040229.4432@mendelson.com> gsm@mendelson.com (Geoffrey S. Mendelson) writes:

>I believe tube numbers were standardized in the 30's with us numbers being

>nTTxxm

>n being the number of elements (including the filament) therefore:
>diodes were 3, triodes were 4, etc, dual triodes were 7.

Not quite, n is the filament voltage. There existed for example a 5L6,
6L6, 12L6 and I even HAD a 7L6GTB! (A "locktal" socket no less : -)

THe standard was followed pretty well for common radio/TV recieving tubes, but as you point out got hairy with "industrial/transmitting types. For example the 807 was a 6L6 with a top anode connector and 5 pin "jumbo" socket rather than an eight pin "octal" socket. The 1625 was the 12 volt filament version of the 807.

The 6l6 was fine for audio work, but the anode capacitance was too high for RF which is the reason for the 807/1625.

--
*Mike Waters AA4MW/7 waters@nddsun1.sps.mot.com *
Endless Loop: n., see Loop, Endless.
Loop, Endless: n., see Endless Loop.
-- Random Shack Data Processing Dictionary

--
*Mike Waters AA4MW/7 waters@nddsun1.sps.mot.com *
Endless Loop: n., see Loop, Endless.
Loop, Endless: n., see Endless Loop.
-- Random Shack Data Processing Dictionary

Date: 29 Mar 91 07:41:15 GMT

From: fernwood!portal!apple!xanadu!jeff@decwrl.dec.com
Subject: WRISTWATCH 2m TRANSCEIVER ?
To: info-hams@ucsd.edu

In article <1991Mar28.155138.7660@pmafire.inel.gov> jeffl@servprod.inel.gov (Jeff Later) writes:

>
>How close are we?! I presently own an Icom 2sa, which does an incredible
>amount of stuff for it's petite size! In fact, with the battery removed
>[stuff deleted..]
>Is ANY manufacturer of Ham equip.
>thinking along similar lines, or have I just been watching too many 007
>re-runs??

Sony *already* has a 6-meter FM wrist transceiver.....well actually forty nine mhz; single frequency. And yes the power/range is limited. To bad there aren't any repeaters for that band....

[lots of smileys here]

Incidently, the TH27 is also very small with the battery out --mostly air in there without the battery.

I don't really want a wrist transciever; I want a glasses frame transceiver! With frequency readout in the upper right hand corner of one of the lenses! But the power radiated would have to be real low (like I'm sure I'll already get headaches just listening, let alone transmitting).

Jeff

Date: 29 Mar 91 17:44:19 GMT
From: swrinde!zaphod.mps.ohio-state.edu!think.com!paperboy!hsdndev!dartvax!
eleazar.dartmouth.edu!billw@ucsd.edu
To: info-hams@ucsd.edu

References <50958e3c.20b6d@apollo.HP.COM>, <f76f6q@rpi.edu>, <50a31070.20b6d@apollo.HP.COM>
Subject : Info on new Ten Tec HF Rigs (Esp. QRP Model)

(First time posting, please be patient...)

I'm interested in trying QRP on HF. A while ago I heard that Ten Tec was introducing a 5W max power rig. Has this radio been introduced yet, has anyone had experience with it and are there any good sources for QRP information?

Thanks in advance.

73 de N1EMF (Bill W.)

Date: 29 Mar 91 17:21:03 GMT

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References <1991Mar26.093904.47160@cc.usu.edu>,
<1991Mar28.040229.4432@mendelson.com>, <961@nddsun1.sps.mot.com>
Subject : Re: Vacuum tube question/quest (Attn: OOTs & gov't surplus fans)

In article <961@nddsun1.sps.mot.com> waters@nddsun1.sps.mot.com (Mike Waters)
writes:

>In article <1991Mar28.040229.4432@mendelson.com> gsm@mendelson.com (Geoffrey S.
Mendelson) writes:

->I believe tube numbers were standardized in the 30's with us numbers being

->nTTxxm

->n being the number of elements (including the filament) therefore:

->diodes were 3, triodes were 4, etc, dual triodes were 7.

>Not quite, n is the filament voltage. There existed for example a 5L6,
>6L6, 12L6 and I even HAD a 7L6GTB! (A "locktal" socket no less :-)

The 'n' value was approximate, and there were exceptions. The 7.. series
in particular were really 6 (6.3) volt tubes, but with loctal sockets.
Likewise, the 14.. series was 12 (12.6) volt loctal tubes. A typical AM
radio of the day contained a 12BE6 mixer, 12BA6 IF amp, 12AV6 detector and
audio amp, 50C5 audio power amp, and a 35W4 rectifier. 12+12+12+50+35 = 121.
The filaments were connected in series across the AC line (no transformer).
[schematic from my RCA receiving tube manual].

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End of Info-Hams Digest
